

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A recording and reproducing device comprising:
 - an extracting unit for extracting audio data and video data in DIF blocks from an incoming DIF stream;
 - ~~a data reconstruction unit for extracting system data in DIF blocks from said DIF stream, extracting audio auxiliary data and reconstructing system data from the extracted data, as reconstructed system data, by eliminating unnecessary data from the extracted data;~~
 - a data reconstruction unit for detecting identifiers of the DIF blocks in the incoming DIF stream, extracting, from the DIF stream, leading predetermined number of bytes of header DIF block, leading predetermined number of bytes of sub-code DIF block, a video auxiliary DIF block, and leading identifier and audio auxiliary data of audio DIF block, and reconstructing the extracted data as reconstructed system data;
 - a recording and reproducing unit for recoding and reproducing said audio data as extracted by said extracting unit, said video data as extracted by said extracting unit and said system data as reconstructed by said data reconstruction unit respectively in an audio data area, a video data area and a system data area, which are separately allocated in a recording medium, in units of a predetermined data amount; and
 - a combining unit for replacing said audio auxiliary data contained in said audio data by said audio auxiliary data contained in said reconstructed system data when combining said audio data, said video data and said reconstructed system data as reproduced by said recording and reproducing unit,
 - wherein, upon carrying out a postrecording process of said audio data, the recording and reproducing unit rewrites said audio data of the audio DIF block recorded in the audio data area and said audio auxiliary data recorded in the system data area.

2. (Original) The recording and reproducing device as claimed in claim 1 further comprising:

a frame error detecting unit for detecting whether or not an error occurs in each frame in said DIF stream and outputting a detection result as error information;

an error information embedding unit for embedding the error information output from said frame error detecting unit into said reconstructed system data as part thereof;

an error information detecting unit for detecting said error information from said reconstructed system data as reproduced by said recording and reproducing unit; and

an error flag rewriting unit for rewriting an frame error flag in said DIF stream when a frame error is detected by said error information detecting unit.

3. (Original) The recording and reproducing device as claimed in claim 1 wherein said recording and reproducing unit stores and records said reconstructed system data corresponding to one DIF sequence in said DIF stream in a single recording block of said recording medium corresponding to said predetermined data amount.

4. (Currently amended) A recording and reproducing method comprising:

extracting audio data and video data in DIF blocks from an incoming DIF stream;

~~extracting system data in DIF blocks from said DIF stream, extracting audio auxiliary data and reconstructing system data from the extracted data, as reconstructed system data, by eliminating unnecessary data from the extracted data;~~

detecting identifiers of the DIF blocks in the incoming DIF stream, extracting, from the DIF stream, leading predetermined number of bytes of header DIF block, leading predetermined number of bytes of sub-code DIF block, a video auxiliary DIF block, and leading identifier and audio auxiliary data of audio DIF block, and reconstructing the extracted data as reconstructed system data;

recoding and reproducing said audio data as extracted, said video data as extracted and

said system data as reconstructed respectively in an audio data area, a video data area and a system data area, which are separately allocated in a recording medium, in units of a predetermined data amount; and

replacing said audio auxiliary data contained in said audio data by said audio auxiliary data contained in said reconstructed system data when combining said audio data, said video data and said reconstructed system data as reproduced,

wherein, upon carrying out a postrecording process of said audio data, said audio data of the audio DIF block recorded the audio data area and said audio auxiliary data recorded in the system data area are rewritten.

5. (Original) The recording and reproducing method as claimed in claim 1 further comprising:

detecting whether or not an error occurs in each frame in said DIF stream and outputting a detection result as error information;

embedding the error information as output into said reconstructed system data as part thereof;

detecting said error information from said reconstructed system data as reproduced; and
rewriting an frame error flag in said DIF stream when a frame error is detected.

6. (Original) The recording and reproducing method as claimed in claim 1 wherein said reconstructed system data corresponding to one DIF sequence in said DIF stream is stored and recorded in a single recording block of said recording medium corresponding to said predetermined data amount.